1116IHSSF1237



DocumentID

NONCD0002903

Site Name

ENGINEERED CONTROLS INTERNATIONAL

DocumentType

Site Assessment Rpt (SAR)

RptSegment

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DocDate

11/14/1997

DocRcvd

2/20/2007

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SF1237

AccessLevel

PUBLIC

Division

WASTE MANAGEMENT

Section

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November 14, 1997

Mr. John Richardson Four Seasons Environmental, Inc. 3107 South Elm-Eugene Street Greensboro, North Carolina 27416-0590



Reference:

Initial Abatement Measures and Site Check Report (20-Day Report)

Initial Site Characterization Report (45-Day Report)

Site Sensitivity Evaluation

Engineered Controls International, Inc.

1239 Rock Creek Dairy Road

Whitsett, North Carolina # 17781

Dear Mr. Richardson:

Aquaterra, Inc. (Aquaterra) is pleased to provide this Initial Abatement Measures and Site Check Report (20-Day Report), Initial Site Characterization Report (45-Day Report), and Site Sensitivity Evaluation (SSE) for the Engineered Controls International, Inc. (ECII) facility located in Whitsett, North Carolina.

On September, 10, 1997, Four Seasons Environmental, Inc. (FSE) responded to a reported virgin cutting oil spill in ECII's machine shop. FSE personnel excavated the impacted soil from the southeast corner of the facility to a depth of 2.5 to 3 feet below land surface and backfilled the excavation area with non-impacted soil. Laboratory analysis of soil samples collected by Aquaterra on September 23, 1997 indicated the presence of oil and grease in concentrations ranging from 66.4 mg/kg to 301 mg/kg (see Table 1). The complete analytical report for the initial soil samples collected for the site are included in Appendix A.

The actions performed at the site to date in order to comply with North Carolina rules 15A NCAC 2N.0702 through 15A NCAC 2N.0705 are listed below.

NCAC 2N.0702

Further release of cutting oil into the surrounding soils was prevented by excavating 278.46 tons of impacted and potentially impacted soils from the site. Due to the removal of the impacted soils, the non-explosive nature of cutting oil, and since the excavated area has subsequently been backfilled with non-impacted soil, fire and explosion hazards are not present at the site.

NCAC 2N.0703

Initial abatement measures conducted at the site included the excavation of impacted soils. Impacted soils encountered during the excavation were stockpiled approximately 500 feet from the release area, covered with plastic, and at a later date transported off-site to an approved disposal

Engineered Controls International, Inc. GR7075 November 14, 1997

facility. Manifests for the soil excavated from the facility are included in Appendix B.

NCAC 2N.0704

The virgin cutting oil release originated from an indoor storage area at the site. The exact quantity of the release is unknown. However, based upon the analytical results from soil samples collected during subsequent soil assessments conducted at the site, it appears that the release was relatively minor. The site is located within the city limits of Whitsett, North Carolina (see Figure 1). The land use of the surrounding area is commercial. Aquaterra conducted a survey to locate water supply wells within 1,500 feet of the site. No water supply wells were observed during the survey. Water service is provided to the area by the City of Greensboro.

NCAC2N.0705

Free product was present on the southeast corner of the building's concrete foundation slab and in the soil adjacent to the foundation (see Figure 2). Free product was removed during soil excavation activities.

A SSE was performed for the site (see Appendix C). One soil sample (SS-1) from the initial sampling event contained oil and grease in concentrations that exceeded the 250 mg/kg action level set by the North Carolina Department of Environment and Natural Resources. On November 4, 1997, Aquaterra collected an additional soil sample (HAB-1) at a depth of 3 to 3.5 feet below land surface in the area of soil sample SS-1. Laboratory analytical results from this soil sample indicated oil and grease concentrations of less than 50 mg/kg (see Table 1). Since the depth to water at the facility is approximately eight feet below land surface, it appears that a five foot buffer exists between the deepest level of impacted soil and the groundwater table. A Total Site Characteristics Score of 80 was calculated for the site, resulting in an Intial Cleanup Level for EPA Method 9071 of 700 parts per million (ppm). Based on the assumption that no known water supply well(s) are located within 1,500 feet of the release, and depth to ground water is approximately 8 feet below land surface, an SSE Site Specific Code - C was issued. Therefore, the Final Cleanup Level for the ECII site is 2,100 ppm.

Aquaterra anticipates that the submittal of this information is sufficient to satisfy NCAC 2N.0702 through NCAC 2N.0705. Aquaterra recommends that a copy of this report be submitted to the address below:

North Carolina Department of Environment and Natural Resources
Division of Water Quality – Groundwater Section
585 Waughtown Street
Winston-Salem, North Carolina 27107-2241

If you have any questions or require any additional information, please contact me at (910) 852-5003.

Sincerely,

AQUATERRA, INC.

Robert L. Drake Project Specialist

Edward M. Kuhn, P.G.

Project Manager

GR7075/RLD/EMK

TABLES

Table 1: Results of Soil Boring Analysis, Engineered Controls International, Inc., Whitsett, North Carolina.

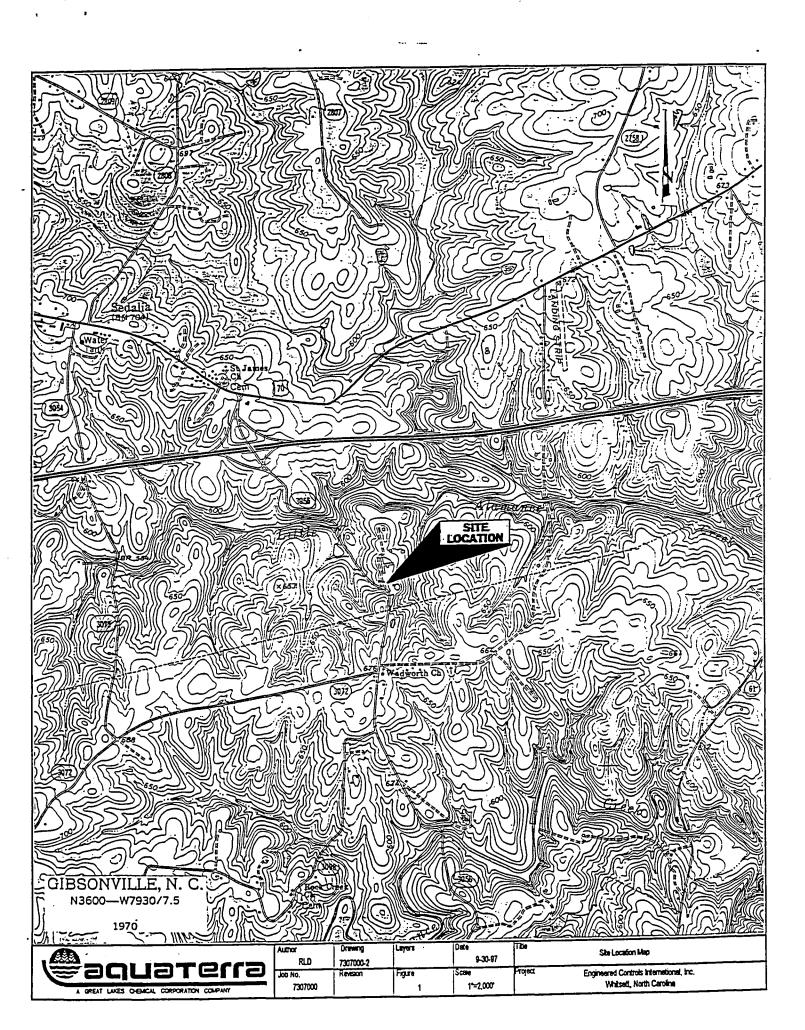
Sample ID	Date Sampled	Depth (feet)	Result EPA Method 9071 (mg/kg)
SS-1	9/23/97	2.5	301
SS-2	9/23/97	2.5	66.4
SS-3	9/23/97	2.5	76.6
SS-4	9/23/97	2.5	120
SS-5	9/23/97	3.5	139
SS-6	9/23/97	2.0	109
3S-7	9/23/97	2.5	176
HAB-1	10/5/97	3.0	<50

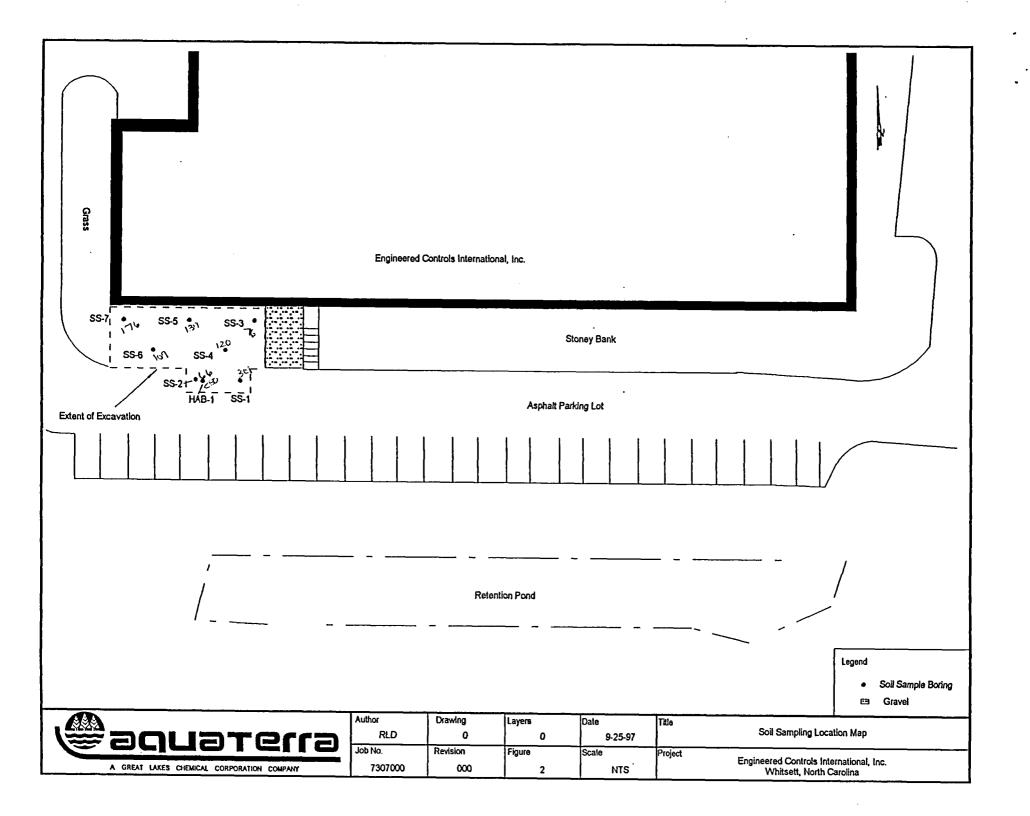
Notes:

Analytical Laboratory: Research & Analytical Loaboratories, Inc. Kernersville, North Carolina

GR7075

FIGURES





APPENDIX A



Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

25 September 1997

Four Seasons Environmental, Inc. P.O. Box 16590 Greensboro, North Carolina 27416

Attention: Mr. John Richardson



Project Number:

7307000 (Aquaterra)

Project Name:

Engineered Controls International, Inc.

Sample Identification	Date Taken	Time (brs)	RAL Sample#	EPA Method 9071 (ppm)
SS-1 (2.5')	09/23/97	1130	312367	301
SS-2 (2.5')	09/23/97	1135	312368	65.4
SS-3 (2.5')	09/23/97	1145	312369	76.6
SS-4 (2.5')	09/23/97	1150	312370	120
SS-5 (3.5')	09/23/97	1200	312371	139
SS-6 (2.0')	09/23/97	1215	312372	109
\$5.7 (2.5")	09/23/97	1220	312373	176

EPA Method 9071 = Total Petroleum Hydrocarbons as Oil & Grease

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= Less Than or Below Detection Limits (BDL)

ppm = Parts Per Million

N/A

= Not Available



Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

CHAIN OF CUSTODY RECORD

Phone (910) 996-2841 WATER/WASTEWATER MISC. JOB NO. PROJECT NAME VO. OF CONTAINERS 1307000 | ENGINEERED CONTROLS INTERNATIONAL, IX. TPH9071 SAMPLE NO. DATE TIME STATION LOCATION REQUESTED ANALYSIS 55-1 <u>Alasba</u> 1130 <u>55-a</u> 251 1135 55-3 1145 55. Y 1150 25' 55-5 1900 55-6 1316 J.0. 55.7 1240 231 BELINDIJI8HFD BY DATE/TIME RECEIVED BY 15:05 REMARKS: onide DATE/TIME RECEIVED BY



RESEARCH & Analytical Laboratories, Inc.

Analytical/Process Consultations

10 November 1997

Aquaterra - A Great Lakes Chemical Corporation Company 302-L Pomona Dr.

Greensboro, North Carolina 27407

Attention: Mr. Ed Kuhn



Project Number:

7307000 (Aquaterra)

Project Name:

Engineered Controls International, Inc.

EPA Method 9071 RAL Time Date Sample (ppm) Sample# (hrs) Taken <u>Identification</u> <50 1630 315913 11/04/97 HAB-1 (3-3.5")

EPA Method 9071 = Total Petroleum Hydrocarbons as Oil & Grease

<

= Less Than or Below Detection Limits (BDL)

ppm

= Parts Per Million

N/A

= Not Available



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APPENDIX B

CERTIFICATE OF ACCEPTANCE

Soil Solutions, Inc. does hereby certify that 278.46 tons of non-hazardous contaminated material were received on 11/10/97 and 11/11/97 from:

Generator:

Engineered Controls International

Originating at:

1239 Rock Creek Dairy Road Whitsett, NC

SSI Waste ID#:

SF119710

This non-hazardous material has been accepted by Soil Solutions, Inc. and will be remediated in their Soil Treatment Facility in Winston-Salem, North Carolina. Soil Solutions, Inc. guarantees the contaminated material will be treated to below regulatory standards established by the North Carolina Department of Environment, Health and Natural Resources for clean soil.

Signature

Thomas W. Hammett, Senior Vice President

Name/Title

Soil Solutions, Inc.

Date

11 / 11 / 97

SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

Truck # 1 - 44	L	ad#		No 09713
	GENERATO	R INFOR	MATION	
Generator:	servi Centrels Interna	tional	Phone:	910-273-2718
Site Address: 1239	Rock Creek Delry Ros	<u>.</u>		
White	sett, North Carolina 273	177	Contact:	John Richardson
Material Descripti	on Contaminati	<u>t</u>	Units	Weight Certification/Quantity
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SOIL SOLUTIONS, INC 1703 Vargrave Street	C.		SSI Project	#:SF119710
Winston-Salem, NC 271	107		Phone:	(910) 725-5844
			Contact:	TONY DISHER
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Facility Signature:	BEKI	132.0	Dat Dat	e:11 12 57
White/Facility	Canary/Invoice	Goldenro	d/Generator	Pink/Carrier

P.4 PAGE 19

SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

Truck # 1 - 47	Load #	2_	No 09714					
Generator:	GENERATOR INF	ORMATION Phone:	910-273-2718					
Site Address:	c Creek Dairy Road							
	North Carolina 27377	Contact:	John Richardson					
Material Description	Contaminant	Units	Weight Certification/Quantity					
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are properly classified, packaged,	labeled, secured, and are in pr	oper condition for	non-hazardous materials manifest transport in commerce under the for delivery to the facility designate.					
Carrier Signature:	Vila		Date: 11/10/97					
	RECEIVER INFORM	MATION						
SOIL SOLUTIONS, INC. 1703 Vargrave Street		SSI Project A	SF119710					
Winston-Salem, NC 27107		Plane:	(910) 725-5844					
		Comacu:	TONY DISHER					
I certify that the carrier has delive treatment and/or disposal in a mar	red the materials described abo ther that has been authorized by	ve to this facility. y the State of North	and I hereby accept this material for h Carolina.					
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SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

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Generator:	Engineered Controls Is		Phone:	910-273-2718	
Site Address:	239 Rock Creek Dair	y Read			• • •
	Whitsett, North Carell	na 27377	Contact:	John Richardson	 ,
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Winston-Salem, NC	27107		Phone:	(910) 725-5844	
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SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

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(ienerator:	secred Controls Inters	intional	Phone:	919-273-2718
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White	esti, North Carolina 2	7377	Contacti	Jehn Richardson
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Winston-Salem, NC 271	07 -		Phone:	(910) 725-5844
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SOIL SOLUTIONS, INC.

SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

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SOIL SOLUTIONS, 1703 Vargrave Stree			SSI Project #	SF119710
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White/Facility	Canary/Invoice	Goldenrod	Generator	Pink/Carrier

SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

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Winston-Salem, NC	27107		Phone.	(910) 725-5844
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SOIL SOLUTIONS, INC.

SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

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Generator:	Chymn	ered Controls Inte	Tational	Phone:	910-273-2718
Site Address:	1239 R	ock Creek Duiry R	load		
·	Whitse	tt, North Carolina		Contact	John Richardson
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PAGE 14

SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

Truck #	44	Load #	8	No 09720			
		GENERATOR INF	ORMATION				
Generator:	Engineered Con	treis interestional	Phone:	919-273-2718			
Site Address:	1239 Rock Cree	k Dairy Read					
Whiteett, North Carolina 2737			Concect	John Richardson			
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***			Contact:				
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Winston-Salem, N			Phone	(910) 725-5844			
			Contact:	TONY DISHER			
I certify that the carri- treatment and/or disp	er has delivered the rosal in a manner than	materials described above that heen authorized by	te to this facility.	and I hereby accept this material for a Carolina.			
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P.11

SDIL SOLUTIONS, INC.

SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

Truck #	Load	# 4		No 09721					
	GENERATOR		IATION						
Generator:	Controls Internation		Phone:	918-273-2718					
Site Address: 1239 Rock (Creek Dairy Road								
Whitsett, No	orth Carolina 27377	· 	Concact:	Jeim Richardson					
Material Description	Contaminant		Unics	Weight Certification/Quantity					
		į	(fon)	81880					
CoJ	Cutting O	ณ	Yds ³	39500 52350) (:.19					
			Drums						
		F 11 3 V 8 51948		177					
1	CARRIER INF								
Carrier: Irexlet ruck	ice		Phone: 104	1-633-0690					
Carrier Trexles Truck 3350 Liberty Ri	1								
Cold Hill N'C			Contact: D	oug Tickler					
As the carrier, I certify that the mate are properly classified, packaged, la applicable regulations governing ma	beled, secured, and are	in proper	condition for	transport in commerce under the					
7 /	(4 1.70	, icecive	MIN' HIGHERIAL .	,					
Carrier Signature:	Nil-			Date: //// 9.7					
	Control of the Contro		Apple of						
	RECEIVER INF								
SOIL SOLUTIONS, INC.			SSI Project #	SF119710					
1703 Vargrave Street Winston-Salem, NC 27107			Phone:	(910) 725-5844					
			Contact:	TONY DISHER					
I certify that the carrier has delivered treatment and/or disposal in a manne	I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material for treatment and/or disposal in a manner that has been authorized by the State of North Carolina.								
Facility Signature: 4 1/3	EATE	1521	- Date	11-10-47					
White/Facility Can	ary/Invoice (Goldenrod	Generator	Pink/Carrier					

SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

Truck # 91	<u> </u>		Load #	10	No 09722
				The second second	
		•		RMATION	
Generator:	Engmeere	d Controls Inter	Mational	Phone:	910-273-2718
Site Address:	1239 Rec	k Creek Dairy R	end	_	1 33
	Whitsett,	North Carolina	27377	Contact:_	John Richardson
Матетіа	Description	Соплаті	180(Units	Weight Certification/Quantity
Soil			ing Oil	Yds ¹ Urums	18.50 NET 30.50 GRAS 12.00 TAGE
· · · · · · · · · · · · · · · · · · ·					
		CARRIER	INFORM	ATION	
Carrier: H.10	in Transp			Phone:	993.3400
				Comact:	
are broberth cistal	ome governing t	ransportation, and I	id are in prop	er condicion fo	s non-hazardous materials manifest r transport in commerce under the for delivery to the facility designat
1 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
1 1 4 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1					
		RECEIVER	INFORMA	TION	
SOIL SOLUTIO				SSI Project	FSF119710
Winston-Salem.				Phone:	(910) 725-5844
				Contact	TONY DISHER
certify that the car restment and/or di	rrier has deliver sposal in a man	ed the materials des ner that has been au	cribed above thorized by th	to this facility, e State of Nort	and I hereby accept this material to
acility Signature:_	<u> بری میز</u>	3 6 17 1	1360	رد ة Date	:: <u>//-/5 }}</u>
Voite/Facility	Ca	mary/Invoice	Goldenro	d/Generator	Pink/Carrier

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SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

Truck# 95	<u></u>	Load #	11	M 09723
		ENERATOR INF	ORMATION	
Generator:	Engineered Cont	res international	Phone:	916-273-2718
Site Address:	1239 Rock Creek	Deiry Read		
	Whitsett, North (Carelina 27377	Contact:	John Richardson
Material D	escription	Contaminant	Units	Weight Certification/Quantity
 Soft		Cutting Oil	Yds ²	12.00 tare
			Drwns	71.33 GRoss
W 28 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			or her spelits of the	(C. 1885). 11
	C	ARRIER INFORM	IATION	
Carrier: Hilco:	Transport IL ,UK		Phone: (C)	10) 15,3-1400
			Contact:	
applicable regulations	governing transportat	ion, and I hereby recei	hipped under this	non-hazardous materials manifest transport in commerce under the or delivery in the facility designate
Carrier Signame:	ince Simil	<u> </u>		Date:
	VIII TO THE TOTAL STATE OF THE T			
		EIVER INFORM	ATION	, 1
SOIL SOLUTIONS 1703 Vargrave Stre	. INC.		SSI Project #:	SF119710
Winston-Salem, NC			Phone:	(910) 725-5844
			Contact:	TONY DISHER
certify that the carries reatment and/or dispos	has delivered the mat al in a manner diat ha	erials described above a been authorized by it	to this facility, and to State of North (nd I hereby accept this material for Carolina
				11 - 10 77
bite/Facility	Canary/Invo		od/Generator	Pink/Carrier

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NO.939

SOIL SOLUTIONS, INC.

SOIL SOLUTIONS, INCORPORATED

1703 Vargrave Street, Winston-Salem, NC 27107

Truck #	Load #		W 09724	
The second secon				
₩	GENERATOR INFO	ORMATION		~
Generator:	moored Controls International	Phope:	910-273-2718	
Site Address: 123	9 Rock Creek Datry Road		1.	
W	tsett, North Carolina 27377	Contact: _	John Richardson	
Material Descrip	cion Contaminant	Units	Weight Certification/Quantity	7
Sea	Cutting Off	Yds' -	26,25 ton 5	20 19 19 19 19 19 19 19 19 19 19 19 19 19
			Contractive Market of them to	ī
	CARRIER INFORM	ATION	Findings of the processing grade to	!
Carrier: Halen 1024 E Mar	Transont N.C. 27284		710.273.944	
As the carrier, I certify that are properly classified, pac	t the materials described above being st kaged, labeled, secured, and are in pro- ming transportation, and I hereby recei	nipped under this	non-hazardous materials manifest	
Carrier Signature:	The start of		Date: 10/10/97	
		Control of the Contro		
	RECEIVER INFORMA	TION		
SOIL SOLUTIONS, INC			SF119710	
1703 Vargrave Street Winston-Salem, NC 271	107	Phone:	(910) 725-5844	
		Contact	TONY DISHER	
111 and 111 min 111	delivered the materials described above a manner that has been authorized by the	to Atato of A	Charling	r
facility Signature: H C	13611 1340	& Date	11 - 11 97	
pil conversionals a secondarional a secondarional a secondarional		The section of the second		
Vhite/Facility	Canary/Invoice Goldenn	od/Generator	Pink/Carrier	

APPENDIX C

Table 1 SITE SENSITIVITY EVALUATION

Site Characteristics Evaluation (Step 1)

Characteristic · · · · ·	Condition	Rating	Score
Predominant Grain Size	Gravel Sand Silt Clay	150 100 50 0	5Ø
Are relict structures, sedimentary structures,	Present and intersecting seasonal high water table	10	
and/or textures present in the zone of contamination	Present but <u>not</u> intersecting seasonal high water table	5	
and underlying "soils"?	None Present	0 .	\Diamond
Distance between contaminated-	5 - 10 feet	20	
noncontaminated soil	>10 - 40 feet	10	200
interface and seasonal high water table	>40 feet	0	
Is the top of bedrock or transmissive indurated	Yes	20	
sediments located above seasonal high water table?	No	0	Ø
	Present & intersecting seasonal high water table	150	
Are artificial conduits present within the zone of contamination?	Present but <u>not</u> intersecting seasonal high water table	10	10
	Not present	0	

Total Site Characteristics Score: 80

SITE SENSITIVITY EVALUATION

Step 2 - Initial Cleanup Level

*FPA Method 8015/5030 for Low Boiling Point Hydrocarbons such as Gasoline, Aviation Fuels, Gasohol

Total Site	Initial Cleanup	Select Site Code**	:
Characteristics Score	Level TPH (ppm)	Code A	
> 150	< 10	(Multiply initial cleanup level by 1)	
121 - 150	20	Cleanup level by 1)	
91 - 120	40 :	Code B	
61 - 90	60	(Multiply initial cleanup level by 2)	2
31 - 60	80	cleanup level by 2)	
0 - 30	100	· Code C	
Select initial cleanup leve	eL then proceed to Step 3	(Multiply initial cleanup level by 3)	3

Select Site	:e Fir	ıal
Code**	Cleanur	Level
Code A		
	•	•
(Multiply initial	1 × =	_ ppm
cleanup level by 1)	· · · · · · · · · · · · · · · · · · ·	
	•	
Code B		
(Multiply initial	2 x =	ppm
	- ^	. pp
cleanup level by 2)		
Code C		
	•	•
(Multiply initial	3 x· =	ppm ·
cleanup level by 3)		

^{*} California GC-FID, modified EPA Method 8015

*EPA Method 8015/3550 for Medium Boiling Point Hydrocarbons such as Kerosene, Diesel, Varsol, Mineral Spirits, Naptha

		Select Site	Final
Total Site	Initial Cleanup		Cleanup Level
Characteristics Score	Level TPH (ppm)	Code A	
> 150	< 40	(Multiply initial 1 cleanup level by 1)	x = ppm
121 - 150	80		•
91 - 120 -	160	Code B	
61 - 90	240		x = ppm
31 - 60	320	cleanup level by 2)	
0 - 30	400	Code C	
Select initial cleanup level	, then proceed to Step 3	(Multiply initial 3 cleanup level by 3)	x = ppm

^{*} California GC-FID, modified EPA Method 8015

EPA Method 9071 for Heavy Fuels-Oil and Grease (O&G) such as Fuel Oil (#4, #5, #6) Motor Oil, Hydraulic Fluid, O&G

	. 4:		Select Site	Final
Total Site	Initial Cleanup		Code**	Cleanup Level
Characteristics Score	Level TPH (ppm)		Code A	
> 150	<250	1-1-	(Multiply initial 1 x cleanup level by 1)	= ppm
121 - 150	400	١		
91 - 120	550	`	Code B	
61 - 90	(700) 850		(Multiply initial 2 x; cleanup level by 2)	ppm
0 - 30 Select initial cleanup leve	1 then proceed to Step 3) j	. Code C - (Multiply initial 3 x 出 cleanup level by 3)	700 = 2,100 ppm

^{**}See Site Code Descriptions, Table 3